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1. Redundant filterbank precoders and equalizers. II. Blind channel estimat direct equalization
Scaglione, A.; Giannakis, G.B.; Barbarossa, S.;
Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and S Transactions on]
Volume 47, Issue 7, July 1999 Page(s):2007 - 2022
Digital Object Identifier 10.1109/78.771048
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2. New Algorithms for Blind Block Synchronization in Zero-Padding Syster
Su, B.; Vaidyanathan, P.P.;
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Volume 1, 7-11 June 1998 Page(s):21 - 25 vol.1
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4. Self-recovering multirate equalizers using redundant filterbank precodei
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Volume 47, Issue 7, July 1999 Page(s):1988 - 2006
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1. Equalization methods in OFDM and FMT systems for broadband wireles
Benvenuto, N.; Tomasin, S.; Tomba, L.;
Communications, IEEE Transactions on
Volume 50, Issue 9, Sept. 2002 Page(s):1413 - 1418
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11-15 March 2007 Page(s):621 - 626
Digital Object Identifier 10.1109/WCNC.2007.120
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1. FILTERBANK MODULATION SYSTEM WITH PRE-EQUALIZATION
TOMASIN, Stefano / BENVENUTO, Nevio (KONINKLIJKE P
N.V.), *PATENT COOPERATION TREATY APPLICATION*, Mar 2004
patno:WO04023750
...for use in a filterbank-based modulation...transformating-mc
receiver...fast-fourier-transformating module (FFT). For making
loop, which coding...at least one feedback loop, and then intrc
IFFT, a filterbank with an impulse...Nq- I, and a FFT. To deriv
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Apr 1999
...filterbanks are substituted by IFFT/FFT blocks, thanks to the
filters composing the FFT [4]. Optimality can be reached...our m
FILTERBANK TRANSCEIVER MODEL Fig. 1...transmit filterbank.
(1) From an...Galois) field, our redundant precoders expand ba
Specifically...prefix. SCAGLIONE et al.: FILTERBANK TRANSCE
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May 2006
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community, to attack techniques. In this paper, we give a brief
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Mar 2004
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(FFT) at the receiver, OFDM converts...frequency response valu
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at the transmitter, and lends...
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1. FILTERBANK MODULATION SYSTEM WITH PRE-EQUALIZATION
TOMASIN, Stefano / BENVENUTO, Nevio (KONINKLIJKE P N.V.), *PATENT COOPERATION TREATY APPLICATION*, Mar 2004
patno:WO04023750
...receiver. Such a filterbank-based modulation...transformatin which receiver...fast-fourier-transformating module (FFT). For n system filterbank-based, a filtering-module...sender after said modules...further-filtering-module in at least one feedback loop
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Giannakis, Georgios B. / Wang, Zhengdao / Zhou, Shengli University of Minnesota), *UNITED STATES PATENT AND TRAD PATENT*, Jul 2007
patno:US7251768
...the OFDM symbol size), IFFT, and cyclic prefix insertion...De-post-FFT data, i.e., the demodulated...real dimension. Since the transform...Gaussian. Although the FFT is an orthogonal transfo achieved by precoders satisfying the full diversity...
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Signal Processing, IEEE Transactions on [PDF-608K]
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[http://www.eecis.udel.edu/~hzhang/DataCompression/xia....]
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7. Space-time doppler coding schemes for time-selective wireless c
Giannakis, Georgios B. / Ma, Xiaoli (Regents of the Univer
*UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PA*
patno:US7280604
Space-time Doppler (STDO) coding techniques are describe for t
particular, a STDO coded system is capable of achieving a maxir
time-selective frequency-flat channels. As demonstrated herein,
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8. IEEE SIGNAL PROCESSING MAGAZINE, VOL. 17, NO. 3, MAY 20
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10526869, filed 03/04/2005
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Application Number: 10/526869
Assignments

Examiner Number: 80488 / TORRES, JUAN

Filing or 371(c) Date: 03/04/2005 eDan

Group Art Unit: 2611 IFW Madras

Effective Date: 03/04/2005

Class/Subclass: 375/350.000

Application Received: 03/04/2005

Lost Case: NO

Waiting for Response Desc.

Pat. Num./Pub. Num: /20050259755

Interference Number:

Prior Art Filed

Issue Date: 00/00/0000

Unmatched Petition: NO

Date of Abandonment: 00/00/0000

L&R Code: Secrecy Code:1

Attorney Docket Number: IT 020026

Third Level Review: NO

Secrecy Order: NO

Status: 30 /DOCKETED NEW CASE - READY FOR EXAMINATION Status Date: 10/18/2007

Confirmation Number: 5437

Oral Hearing: NO

Title of Invention: FLITERBANK MODULATION SYSTEM WITH PRE-EQUALIZATION

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|---|---|---|
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| 10525597 | Not Issued | 41 | 02/25/2005 | Frequency-domain decision feedback equalizing device and method | TOMASIN, STEFANO |
| 10526869 | Not Issued | 30 | 03/04/2005 | Fliterbank modulation system with pre-equalization | TOMASIN, STEFANO |
| 10842699 | Not Issued | 71 | 05/10/2004 | Frequency-domain multi-user access interference cancellation and nonlinear equalization in CDMA receivers | TOMASIN, STEFANO |
| 11192503 | Not Issued | 71 | 07/29/2005 | Channel estimation for interference cancellation | TOMASIN, STEFANO |
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| 11192787 | Not Issued | 30 | 07/29/2005 | Adaptation of transmit subchannel gains in a system with interference cancellation | TOMASIN, STEFANO |
| 11193546 | Not Issued | 41 | 07/29/2005 | Joint interference cancellation of pilot, overhead and traffic channels | TOMASIN, STEFANO |
| 60638666 | Not Issued | 159 | 12/23/2004 | Traffic interference cancellation at the BTS on a CDMA reverse link | TOMASIN, STEFANO |

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Last Name = BENVENUTO
First Name = NEVIO

| Application# | Patent# | Status | Date Filed | Title | Inventor Name |
|---|---|---|---|---|---|
| 06816578 | 4677423 | 150 | 01/06/1986 | ADPCM CODER-DECODER INCLUDING PARTIAL BAND ENERGY TRANSITION DETECTION | BENVENUTO, NEVIO |
| 06927503 | 4815137 | 150 | 11/06/1986 | VOICEBAND SIGNAL CLASSIFICATION | BENVENUTO, NEVIO |
| 06927506 | 4815136 | 150 | 11/06/1986 | VOICEBAND SIGNAL CLASSIFICATION | BENVENUTO, NEVIO |
| 07271961 | Not Issued | 166 | 11/16/1988 | CLASSIFIER FOR HIGH SPEED VOICEBAND DATA SIGNALS | BENVENUTO, NEVIO |
| 07534321 | 4979211 | 150 | 06/05/1990 | CLASSIFIER FOR HIGH SPEED VOICEBAND DIGITAL DATA MODEM SIGNALS | BENVENUTO, NEVIO |
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| 10525597 | Not Issued | 41 | 02/25/2005 | Frequency-domain decision feedback equalizing device and method | BENVENUTO, NEVIO |
| 10526869 | Not Issued | 30 | 03/04/2005 | Fliterbank modulation system with pre-equalization | BENVENUTO, NEVIO |
| 10810620 | Not Issued | 161 | 03/29/2004 | Method of bit and power loading in OFDM communication systems with modulation and coding adaptation | BENVENUTO, NEVIO |
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